

The diagram illustrates a digital receiver system. The input signal (1) is received by an antenna and passes through a DBT (2) and a SAW (3) filter. It then enters an AMP (4). The output of the AMP (4) is split: one path goes to a MIX (5) and another to a  $\phi$ -SHIFTER (7). The output of the  $\phi$ -SHIFTER (7) goes to a second MIX (6). The outputs of MIX (5) and MIX (6) are filtered by LPF (10) and then converted by an A/D converter (12). The output of the A/D converter (12) is split: one path goes to a D/A converter (16) and another to a Waveform equalizer (22). The output of the D/A converter (16) is filtered by LPF (18) and then converted by a VCO (19). The output of the VCO (19) is split: one path goes to a SW (11) and another to a Switch Circuit (111). The output of the SW (11) goes to the A/D converter (12). The output of the Switch Circuit (111) goes to a VCO (8) and a LPF (9). The output of the VCO (8) goes to the  $\phi$ -SHIFTER (7). The output of the LPF (9) goes to the Switch Circuit (111). The output of the Switch Circuit (111) goes to a Sync. Code Pattern Detector (101) and a Symbol Number Counter (102). The output of the Sync. Code Pattern Detector (101) goes to a Detection Protection Counter (103). The output of the Symbol Number Counter (102) goes to a Segment Sync. Detection Circuit (104). The output of the Detection Protection Counter (103) goes to an AGC Error Detecting Circuit (106) and a Clock Phase Error Detecting Circuit (105). The output of the Segment Sync. Detection Circuit (104) goes to a Segment Sync. Detection Circuit (104). The output of the AGC Error Detecting Circuit (106) goes to an AGC (107) and a Waveform equalizer (22). The output of the Clock Phase Error Detecting Circuit (105) goes to a Pherr (108) and a Segst (109). The output of the Pherr (108) goes to a Waveform equalizer (22). The output of the Segst (109) goes to a Shld (110). The output of the Shld (110) goes to a Waveform equalizer (22).

# Replacement Sheet



FIG. 9

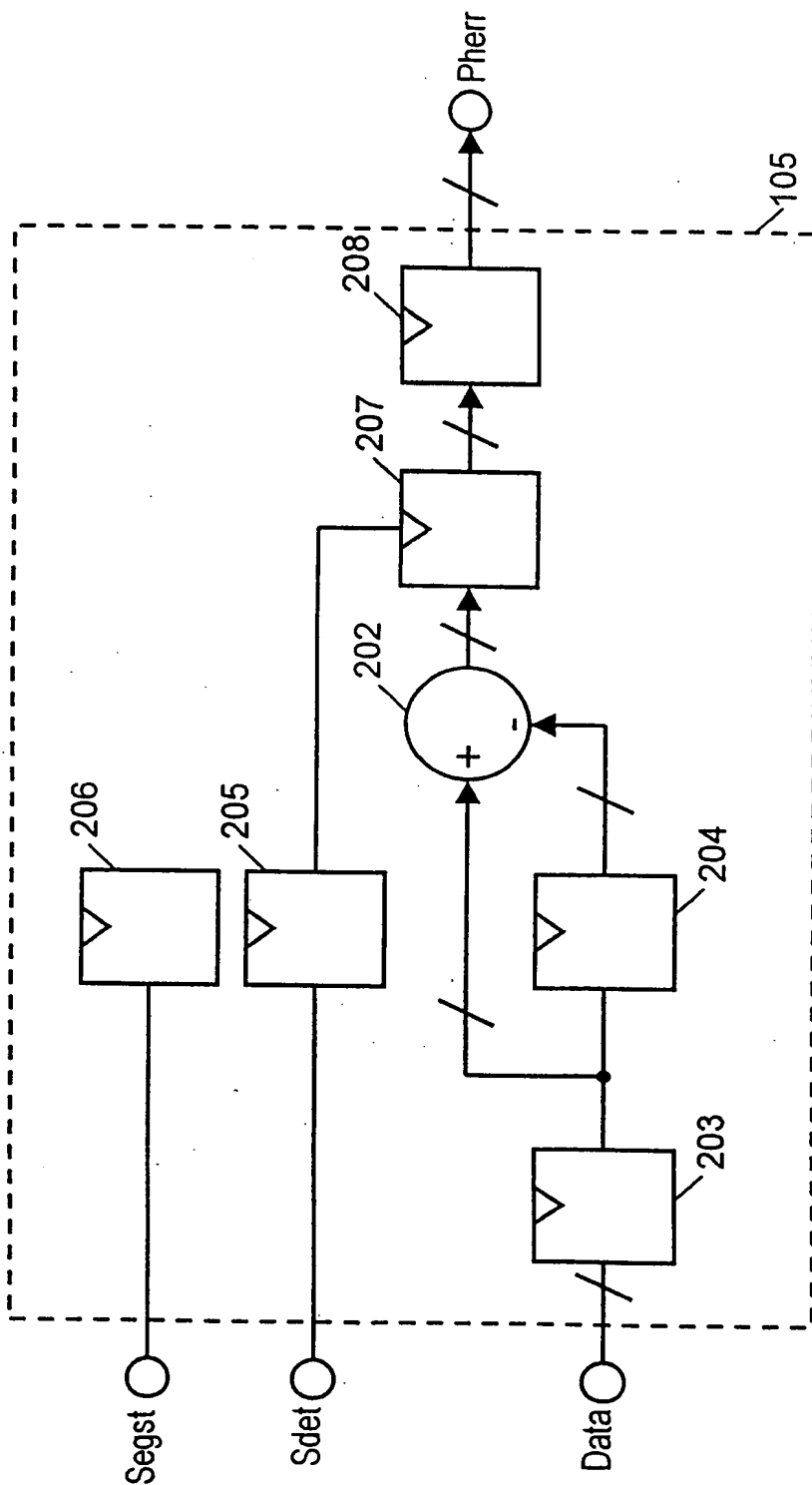




FIG. 10 (PRIOR ART)

